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Base Alloys Protectors Containing Calcium, by
A. F. Zhurakhovskiy, I. N. Frantsavich. UNCL

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DSIR LLU RTS 1130

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Sci - Chem, corrosion
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Sci - Eng

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Electrochemical Production of Alloys of Nickel
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1958, pp 234-240.

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K. D. Modylevskaya, 9 pp.

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MECHANISM OF ELECTRODEPOSITION OF MO-
LYBDENUM AND TUNGSTEN ALLOYS WITH
METALS OF THE IRON GROUP. I. INVESTIGA-
TION OF METHODS OF CONSTRUCTING INDIVID-
UAL POLARIZATION CURVES, tr. by Leonard
Shapiro. [1960] 13p. (9 figs. omitted) 21 refs.
Order from LC or SLA ml\$2.40, ph\$3.30 61-15067

Trans. of Ukrainakiy Khimicheskiy Zhurnal (USSR)
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(Machinery--Manufacturing, TT, v. 5, no. 9)

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1. Molybdenum alloys--
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2. Tungsten alloys--
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1. Frantsevich-Zabludovskaya,
T. F.
- II. Zayats, A. I.
- III. Barchuk, V. T.
- IV. Title: Investigation...

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Frantsevich-Zabludovskaya, T. F., Zayats, A. I.,
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MECHANISM OF ELECTRODEPOSITION OF MO-
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GRAPHIC INVESTIGATIONS, tr. by Leonard Shapiro.
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2. Nickel-tungsten alloys--
Electrodeposition
3. Oscillographs--
Applications

- I. Frantsevich-Zabludovskaya,
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- II. Zayats, A. I.
- III. Barchuk, V. T.
- IV. Title: Oscillographic...

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Electrolytic Production of Nickel and
Molybdenum Alloys, by I. N. Frantsevich,
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The Migration of Solid Metal Solution Components
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THE MIGRATION OF SOLID METAL SOLUTION
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Scientific - Electricity

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JPRS 10296

KEUR - Germany
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G. FRANZ

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I. Cement and Concrete -
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ADU0991
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LOAD-BEARING BEHAVIOR OF BRACKETS AND RE-
STRAINED BEAMS. [1963] [7p] 5refs
Order from SLA \$1.10 63-20308

Trans. of mono. (lecture presented at) the CEB
Congress, Wiesbaden, 1963.

DESCRIPTORS: *Beams (Structural), *Mounting
brackets, Load distribution, Loading (Mechanics),
*Reinforced concrete, Stresses, Mathematical analysis

Brackets, short cantilever beams under a concentrated
load at the top edge, and restrained beams up to $a = h$
(as, for example, foundations and pilings) should be
reinforced using truss analogy. The required cross-
section at the point of restraint or at the center of the
beam $P e_z = \frac{P \cdot a}{e_z}$ is continued to the support or under
(Engineering--Civil, TT, v. 10, no. 12) (over)

63-20308

I. Franz, G.

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Office of Technical Services

Frans, H. and Scholze, H.
THE SOLUBILITY OF H₂O VAPOUR IN GLASS MELTS
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TT-64-12947

I. Frans, H.
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III. BGIRA-598
IV. British Glass Industry
Research Association,
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On the Stability of the Guinier-Preston Zones
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Investigation Concerning the Equilibrium in Reduction, Oxidation, and Carbonizing Phenomena in Iron, by R. Schenck, H. Franz, A. Laymann, 18 pp.

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Sci - Biology
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Feb 64

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JPRS 612-D

Mar - German
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GERMAN, From the Institute of Inorganic Chemical
Technology of Vienna Polytechnicum.

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Sci - Min/Met

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Sci -

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DESCRIPTORS: *Electrons, *Field emission, *Impact
shock, *Ionization, Excitation, Probability, Crystals.

Zener's internal field emission formula is not capable
of quantitative application because of the neglects
in its derivation. Part A of this report derives a
quantitative formula for the three-dimensional crystal
by evaluating Houston's theory by complex methods.
Coulomb interaction between the conduction electron
created and the valence hole left is taken into account.
Part B of the report gives the theory of impact ioniza-
tion of the valence band by a conduction electron. The
(Physics--Electronics, TT, v. 8, no. 9) (over)

62-14446

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1. Franz, W.

C225909

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Theory of Diffraction by a Cylinder as Affected by
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GERMAN, per, Annalen der Physik, Vol X, 1952,
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Scientific - Physics

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Theory of Diffraction by a Sphere on Consideration
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Sci - Chem
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Analysis of High-Toxic Organic Phosphoric Acid Esters,
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JPRS 22943

Sci-Chem
Jan 64

267, 158

Franz, Walter.
THE INFLUENCE OF AN ELECTRIC FIELD ON AN
OPTICAL ABSORPTION EDGE. [1961] 13p. 3 refs.
Order from SLA \$1.60 62-14353

Trans. of Zeitschrift für Naturforschung (West
Germany) 1958, v. 13a [no. 6] p. 484-489.

DESCRIPTORS: *Electric fields, *Optics, *Absorption,
Absorption spectra, *Electrons, Penetration, Frequency
modulation, Modulation, Frequency, *Crystals.

In an electric field on the order of magnitude of 10^5 to
 10^6 v/cm, one may expect a change in the absorption
edge which consists of a broadening of the base of the
edge at the expense of higher frequencies. One can
understand this effect, either as the penetration of elec-
trons into the forbidden band (the step preceding the in-
ternal field emission), or as a frequency modulation
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Office of Technical Services

Internal Field Emission From an Interference or
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Sci - Phys
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Semi-Asymptotic Series for Diffraction of a
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Reinhard Galle, 15 p.

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SLA 59-20500

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Trans. of Zeitschrift für Naturforsch[ung] (West
Germany) 1958, v. 13a [no. 6] p. 484-489.

DESCRIPTORS: *Electric fields, *Optics, *Absorption,
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ternal field emission), or as a frequency modulation
(Physics, TT, v. 8, no. 3) (over)

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Internal Field Emission From an Interference or
Disturbance Center, Section 31, by Walter Franz,
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GHEMAN, per, Handbuch der Physik, Dielektrika,
Vol XVII, Chap II, 1956, pp 155-255.

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Semi-Asymptotic Series for Diffraction of
Plane Wave on a Cylinder, by Walter Prang,
Reinhard Galle, 15 p.

GERMAN, per, Zeit fur Naturforschung, 1955,
Vol XX, No 5, pp 374-378.

BIA 59-20500

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Vol 2, No 12

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(CSO: 2900-b)

Motor Ship "Luebbenau" Built by VEB Shipyard Warnow
Warn Mu NDE, by Engi W. Franz, 10 pp.

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JPRS: 15,216

EEur - Germany
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Sep 62

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On the Green's Functions of the Cylinder and the
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Scientific - Engineering

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On the Theory ~~XX~~ of Diffraction of a Screen,
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Sci/Phy
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